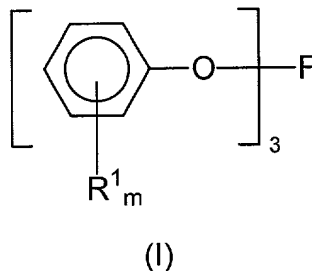


What is Claimed is:

1. A liquid polymer additive composition comprising:
 - (a) at least one phosphite ester selected from the group consisting of aryl phosphites, alkyl phosphites, aryl/alkyl phosphites, bisphenol-A phosphites, dialkylene glycol phosphites and polydialkylene glycol phosphites, pentaerythritol phosphites, *p*-cumyl phenol phosphites and blends thereof; and
 - (b) approximately from 50 to 800 ppm inclusive of zinc per hundred parts of a resin.
2. The composition of claim 1 wherein
 - (a) said zinc is from approximately 100 to 500 ppm.
3. The composition of claim 2 wherein
 - (a) said zinc is from approximately 100 to 250 ppm.
4. The composition of claim 1 wherein said at least one phosphite ester is selected from the group consisting of
aryl phosphites of formula (I)

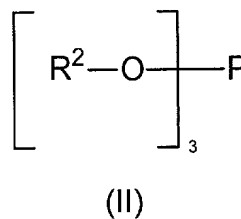


wherein:

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and

m is an integral value from 0 to 5 inclusive,

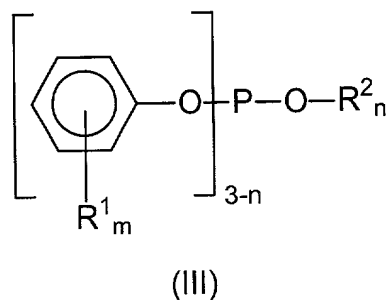
alkyl phosphites of formula (II)



wherein:

R^2 is selected from the group consisting of C_{1-18} alkyl,

alkyl/aryl phosphites of formula (III)



wherein:

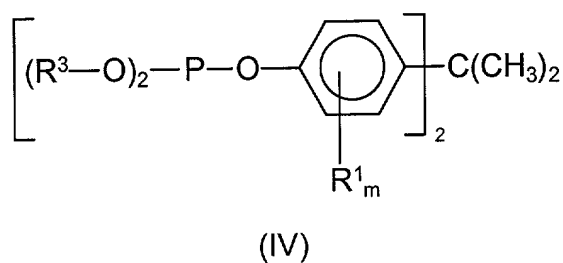
R^1 is as previously defined;

R^2 is as previously defined;

m is an integral value from 0 to 5 inclusive; and

n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



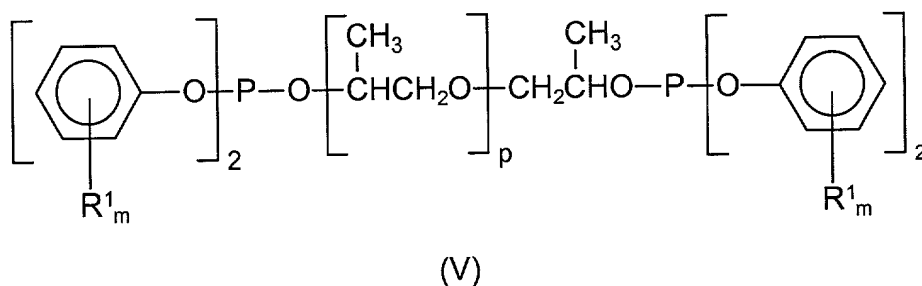
Wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



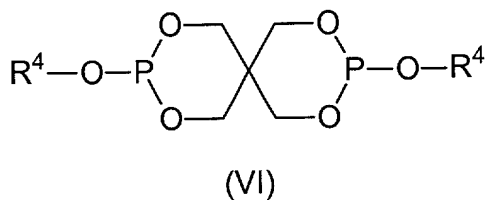
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

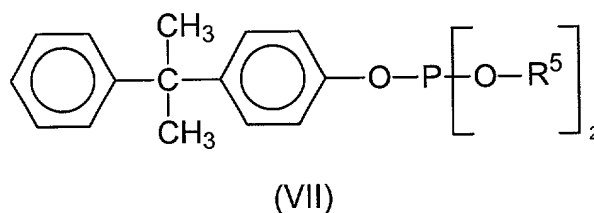
pentaerythritol phosphites of formula (VI)



wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphites of formula (VII)

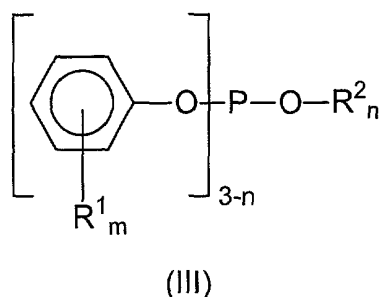


wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

5. The composition of claim 4 wherein
 - (a) a percentage weight loss of said composition as measured as a difference between a start and an end weight of said composition as measured after exposure to two hours at 110°C, is less than 1% by weight.
6. The composition of claim 5 wherein
 - (a) a percentage weight loss is less than 0.5% by weight.

7. The composition of claim 6 wherein said at least one phosphite ester is selected from the group consisting of
alkyl/aryl phosphites of formula (III)

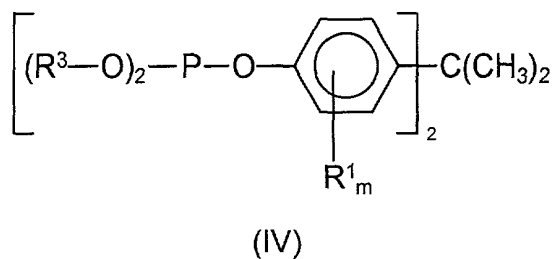


wherein:

R^1 is independently selected from the group
consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy,
halogens; and

R^2 is selected from the group consisting of C_{1-16} alkyl,
 m is an integral value from 0 to 5 inclusive; and
 n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



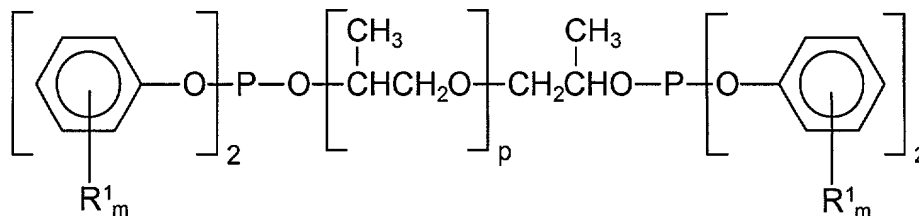
Wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

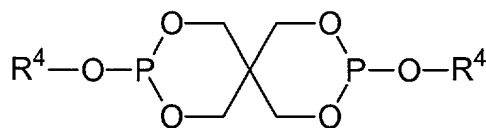
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-16} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

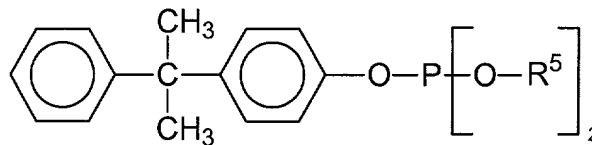
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphite is of formula (VII)

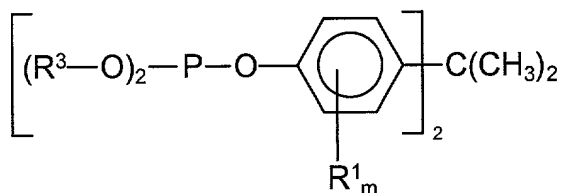


(VII)

wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

8. The composition of claim 7 wherein said at least one phosphite ester is selected from the group consisting of bisphenol-A phosphites of formula (IV)



(IV)

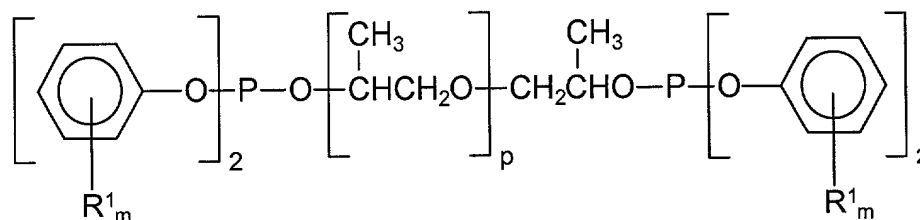
Wherein

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

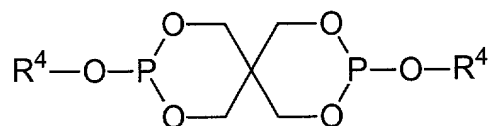
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive, and

pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

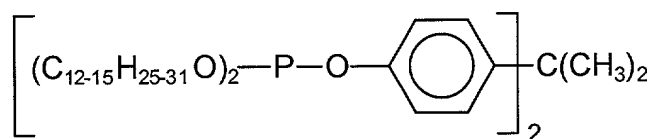
hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

9. The composition of claim 8 wherein said composition is essentially free of barium, cadmium and calcium.

10. The composition of claim 7 wherein

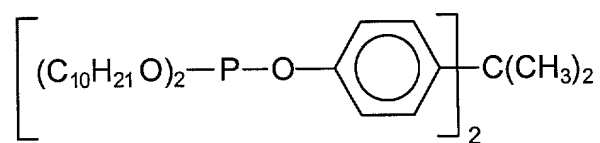
(a) said phosphite ester is selected from the group consisting of

C_{12-15} bisphenol-A phosphite of formula (VIII)



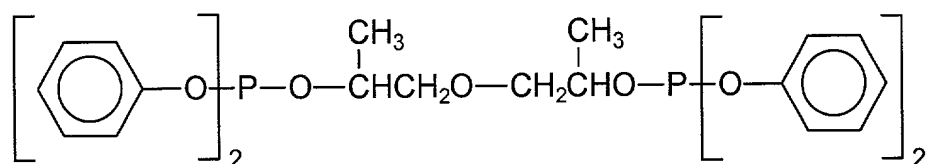
(VIII)

C₁₀ bisphenol-A phosphite of formula (IX)



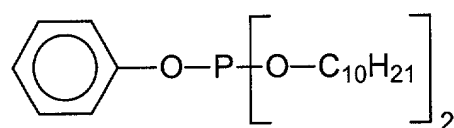
(IX)

tetraphenyl dipropylene glycol diphosphite of formula (X)



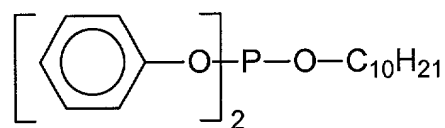
(X)

phenyl diisodecyl phosphite of formula (XI)



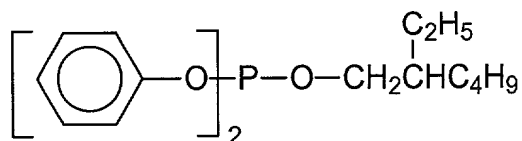
(XI)

diphenyl isodecyl phosphite of formula (XII)



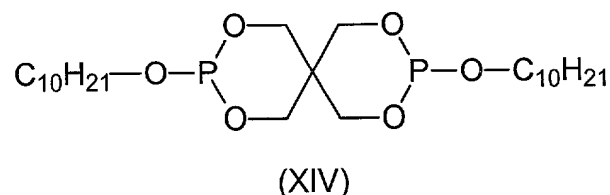
(XII)

diphenyl 2-ethylhexyl phosphite of formula (XIII)

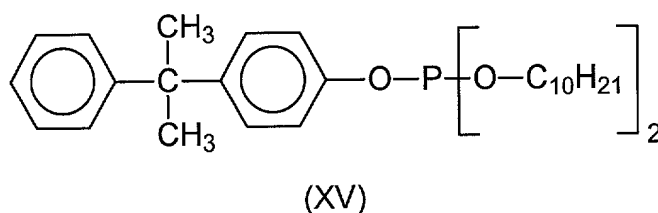


(XIII)

diisodecyl PE diphosphite of formula (XIV) and



mono *p*-cumyl phenol diisodecyl phosphite of formula (XV)



11. A liquid polymer additive composition comprising:

- (a) at least one phosphite ester selected from the group consisting of aryl phosphites, alkyl phosphites, aryl/alkyl phosphites, bisphenol-A phosphites, dialkylene glycol phosphites and polydialkylene glycol phosphites, pentaerythritol phosphites, *p*-cumyl phenol phosphites and blends thereof; and
- (b) approximately from 50 to 800 ppm inclusive of zinc per hundred parts of a resin.
- (c) said composition having a ratio of P/Zn of from at least about 8:1 to 75:1 inclusive.

12. The composition of claim 11 wherein

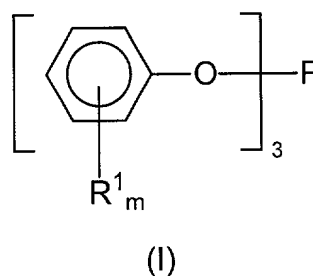
- (a) said zinc is from approximately 100 to 500 ppm.

13. The composition of claim 12 wherein

- (a) said zinc is from approximately 100 to 250 ppm.

14. The composition of claim 1 wherein said at least one phosphite ester is selected from the group consisting of

aryl phosphites of formula (I)

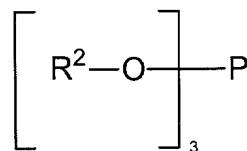


wherein:

R^1 is independently selected from the group
consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy,
halogens; and

m is an integral value from 0 to 5 inclusive,

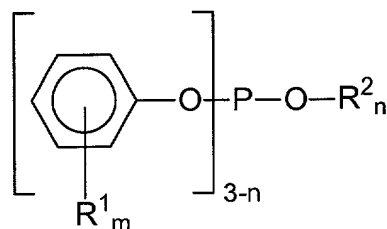
alkyl phosphites of formula (II)



(II)

wherein:

R^2 is selected from the group consisting of C_{1-18} alkyl,
alkyl/aryl phosphites of formula (III)



(III)

wherein:

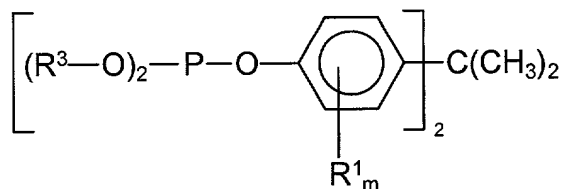
R^1 is as previously defined;

R^2 is as previously defined;

m is an integral value from 0 to 5 inclusive; and

n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



(IV)

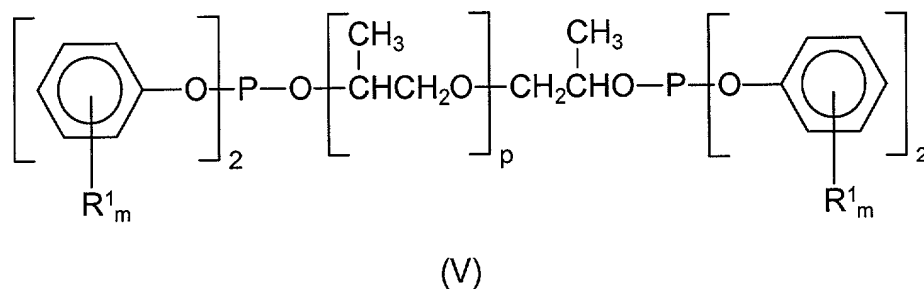
wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



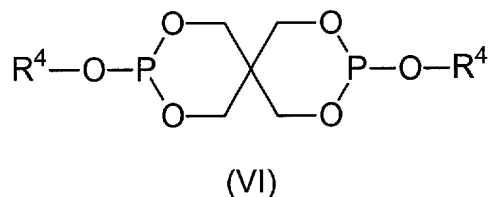
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

pentaerythritol phosphites of formula (VI)



wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

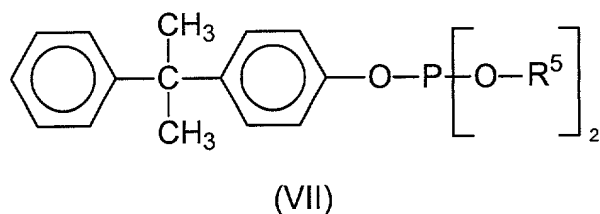
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphites of formula (VII)



wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

15. The composition of claim 14 wherein

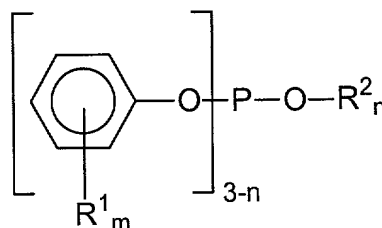
(a) a percentage weight loss of said composition as measured as a difference between a start and an end weight of said composition as measured after exposure to two hours at 110°C , is less than 1% by weight.

16. The composition of claim 15 wherein

(a) a percentage weight loss is less than 0.5% by weight.

17. The composition of claim 16 wherein said at least one phosphite ester is selected from the group consisting of

alkyl/aryl phosphites of formula (III)



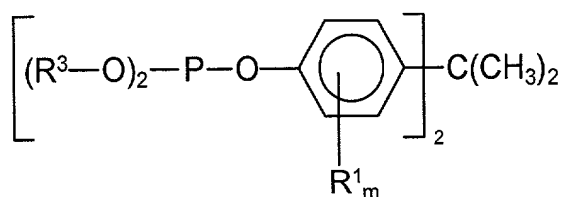
(III)

wherein:

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and

R^2 is selected from the group consisting of C_{1-18} alkyl, m is an integral value from 0 to 5 inclusive; and n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



(IV)

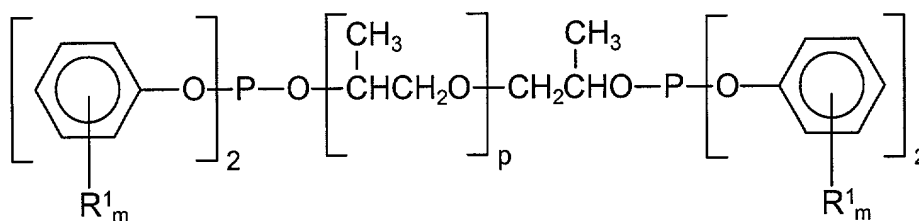
Wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

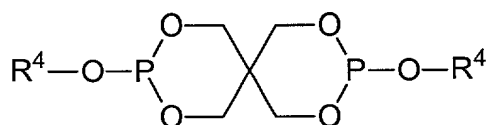
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

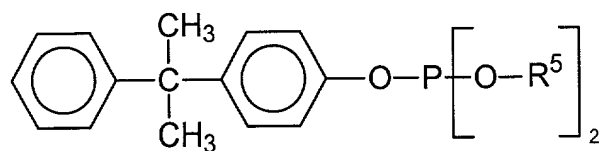
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphite is of formula (VII)

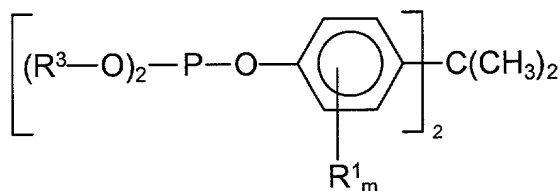


(VII)

wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

18. The composition of claim 7 wherein said at least one phosphite ester is selected from the group consisting of bisphenol-A phosphites of formula (IV)

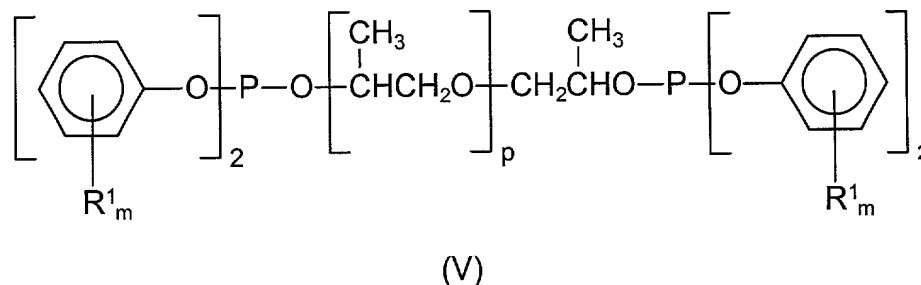


(IV)

Wherein

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and
 R^3 is C_{8-18} alkyl; and
 m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



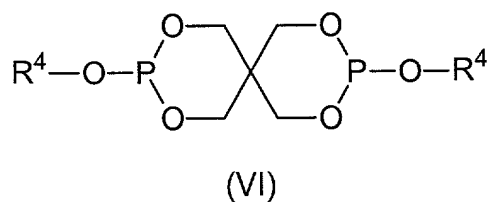
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive, and

pentaerythritol phosphites of formula (VI)



wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

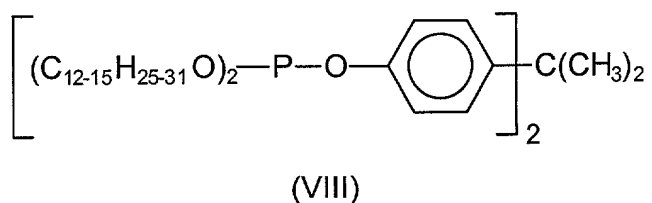
hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

19. The composition of claim 18 wherein said composition is essentially free of barium, cadmium and calcium.

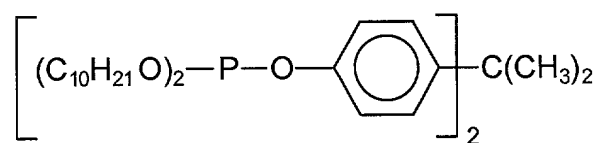
20. The composition of claim 17 wherein

(a) said phosphite ester is selected from the group consisting of

C_{12-15} bisphenol-A phosphite of formula (VIII)

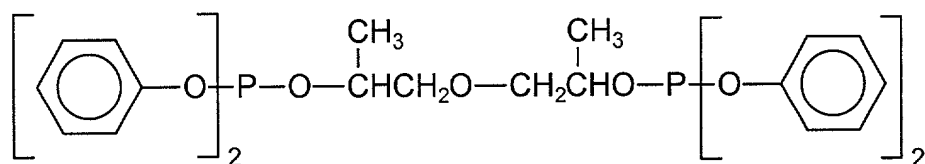


C₁₀ bisphenol-A phosphite of formula (IX)



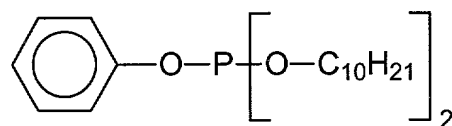
(IX)

tetraphenyl dipropylene glycol diphosphite of formula (X)



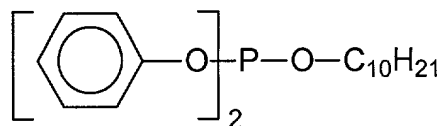
(X)

phenyl diisodecyl phosphite of formula (XI)



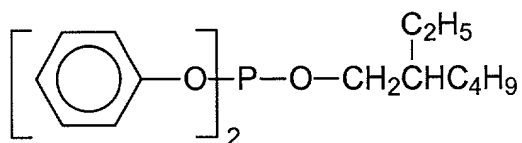
(XI)

diphenyl isodecyl phosphite of formula (XII)



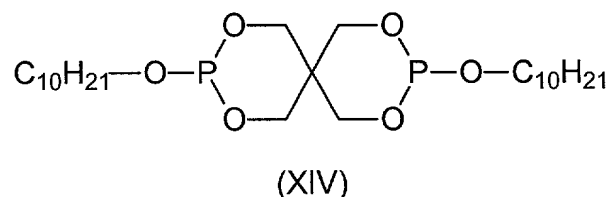
(XII)

diphenyl 2-ethylhexyl phosphite of formula (XIII)

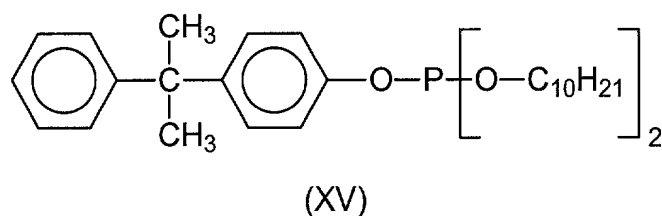


(XIII)

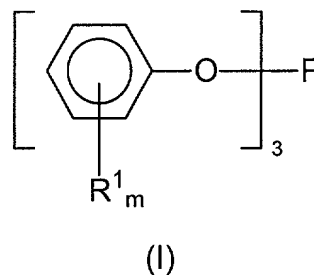
diisodecyl PE diphosphite of formula (XIV) and



mono *p*-cumyl phenol diisodecyl phosphite of formula (XV)



21. An essentially toxic-metal free liquid polymer additive composition for use as at least a partial replacement of toxic metal stabilizer additive compositions for use in vinyl-containing resins, wherein the essentially toxic-free composition consists essentially of:
- (a) at least one phosphite ester selected from the group consisting of aryl phosphites, alkyl phosphites, aryl/alkyl phosphites, bisphenol-A phosphites, dialkylene glycol phosphites and polydialkylene glycol phosphites, pentaerythritol phosphites, *p*-cumyl phenol phosphites and blends thereof; and
 - (b) approximately from 50 to 800 ppm inclusive of zinc per 100 parts of a resin.
22. The composition of claim 21 wherein
- (a) said zinc is from approximately 100 to 500 ppm.
23. The composition of claim 22 wherein
- (a) said zinc is from approximately 100 to 250 ppm.
24. The composition of claim 21 wherein said at least one phosphite ester is selected from the group consisting of
- aryl phosphites of formula (I)

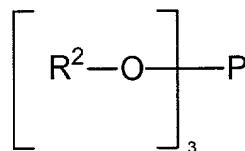


wherein:

R^1 is independently selected from the group
consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy,
halogens; and

m is an integral value from 0 to 5 inclusive,

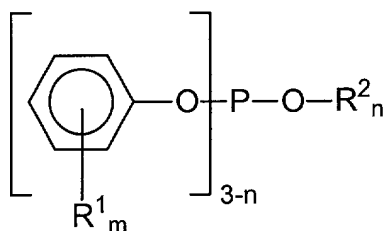
alkyl phosphites of formula (II)



(II)

wherein:

R^2 is selected from the group consisting of C_{1-18} alkyl,
alkyl/aryl phosphites of formula (III)



(III)

wherein:

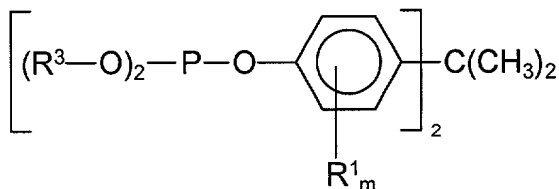
R^1 is as previously defined;

R^2 is as previously defined;

m is an integral value from 0 to 5 inclusive; and

n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



(IV)

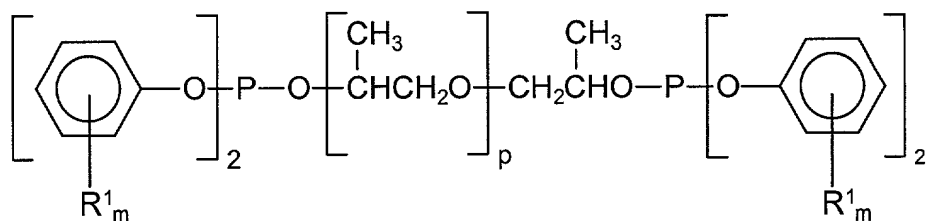
wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

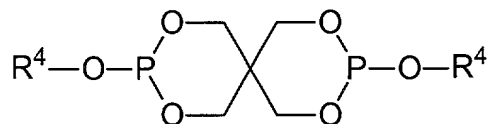
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

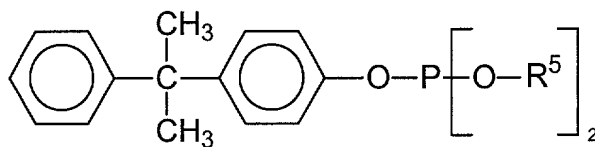
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphites of formula (VII)



(VII)

wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

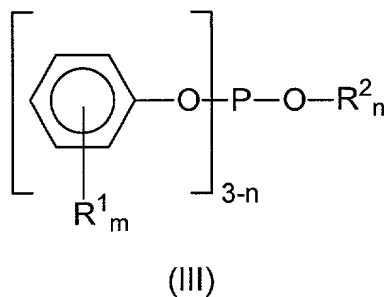
25. The composition of claim 24 wherein

(a) a percentage weight loss of said composition as measured as a difference between a start and an end weight of said composition as measured after exposure to two hours at 110°C , is less than 1% by weight.

26. The composition of claim 25 wherein

(a) a percentage weight loss is less than 0.5% by weight.

27. The composition of claim 26 wherein said at least one phosphite ester is selected from the group consisting of alkyl/aryl phosphites of formula (III)

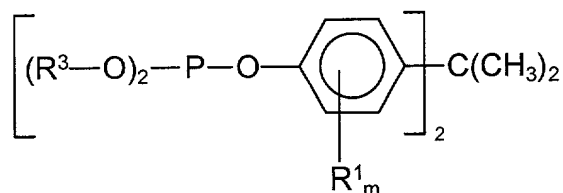


Wherein:

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and

R^2 is selected from the group consisting of C_{1-18} alkyl, m is an integral value from 0 to 5 inclusive; and n is an integral value from 1 to 2,

bisphenol-A phosphites of formula (IV)



(IV)

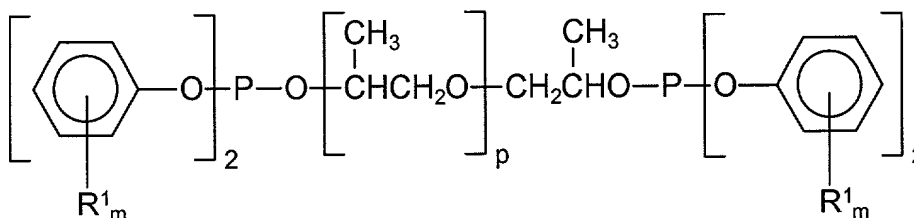
Wherein

R^1 is as defined previously;

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

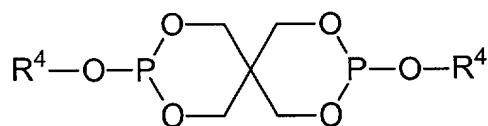
Wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

pentaerythritol phosphites of formula (VI)



(VI)

Wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

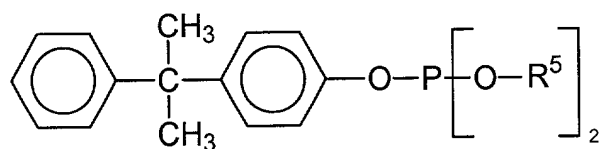
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphite is of formula (VII)

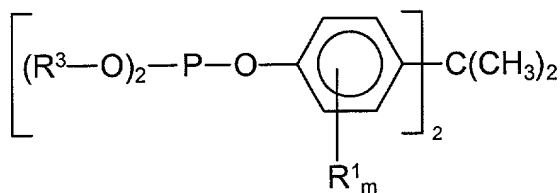


(VII)

Wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

28. The composition of claim 27 wherein said at least one phosphite ester is selected from the group consisting of bisphenol-A phosphites of formula (IV)

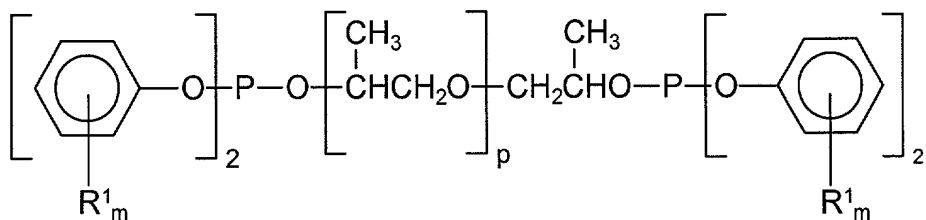


(IV)

wherein

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and
 R^3 is C_{8-18} alkyl; and
M is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

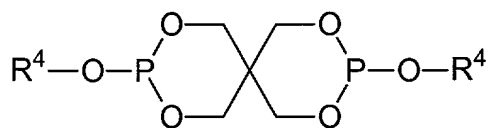
wherein:

R^1 is as defined previously;

M is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive, and

Pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

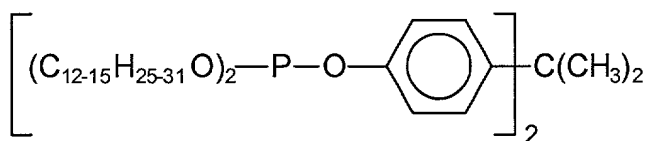
hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

29. The composition of claim 28 wherein said composition is essentially free of barium, cadmium and calcium.

30. The composition of claim 27 wherein

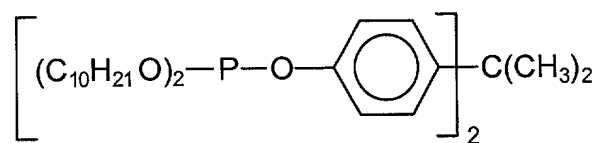
(a) said phosphite ester is selected from the group consisting of

C_{12-15} bisphenol-A phosphite of formula (VIII)



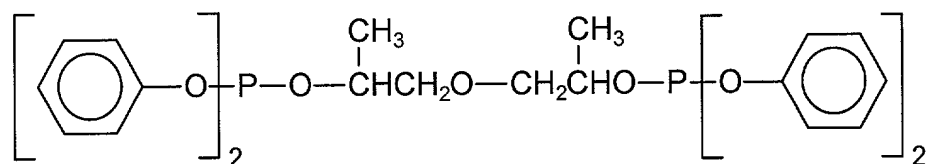
(VIII)

C₁₀ bisphenol-A phosphite of formula (IX)



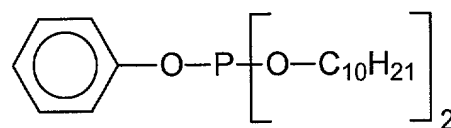
(IX)

tetraphenyl dipropylene glycol diphosphite of formula (X)



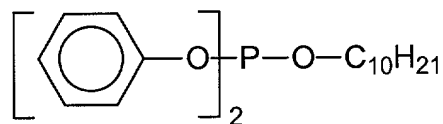
(X)

phenyl diisodecyl phosphite of formula (XI)



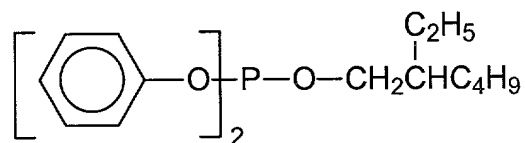
(XI)

diphenyl isodecyl phosphite of formula (XII)



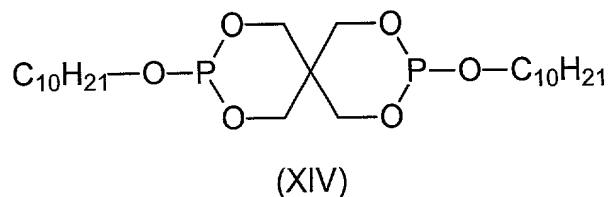
(XII)

diphenyl 2-ethylhexyl phosphite of formula (XIII)

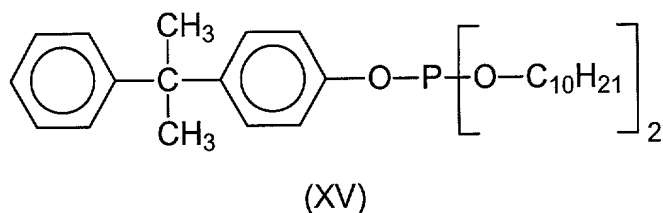


(XIII)

diisodecyl PE diphosphite of formula (XIV) and

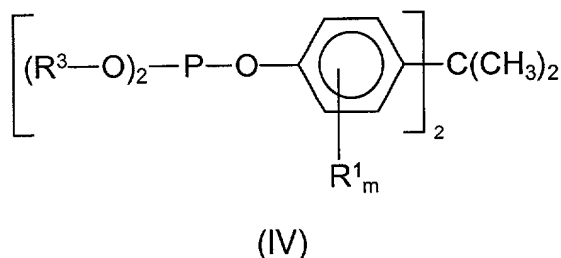


mono *p*-cumyl phenol diisodecyl phosphite of formula (XV)



31.A additive composition for polyvinyl chloride resin which comprises:

- (a) At least one phosphite ester selected from the group consisting of bisphenol-A phosphites of formula (IV)



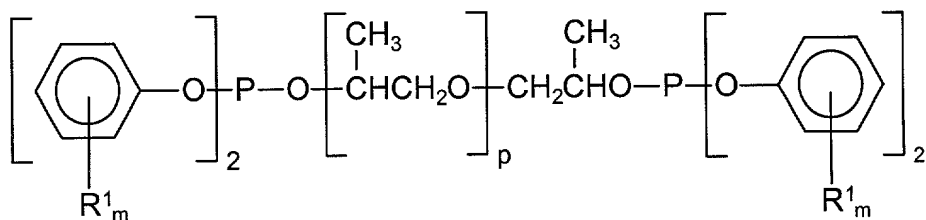
wherein

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens; and

R^3 is C_{8-18} alkyl; and

m is an integral value from 0 to 5 inclusive,

polydialkylene glycol phosphites of formula (V)



(V)

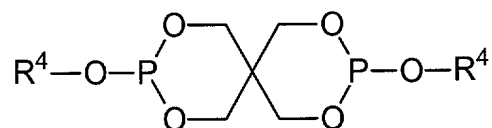
wherein:

R^1 is as defined previously;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive,

Pentaerythritol phosphites of formula (VI)



(VI)

wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl;

C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl,

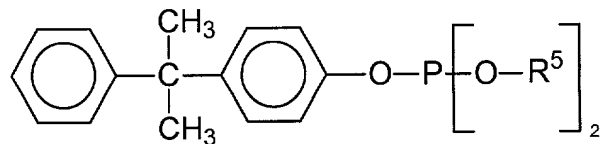
C_{7-35} arylalkyl, and substituted derivatives

thereof, wherein the substituents are selected

from the group consisting of halogens,

hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy, and

p-cumyl phenol phosphite is of formula (VII)



(VII)

wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy; and

(b) approximately from 100 to 500 ppm zinc inclusive per 100 parts resin.

32. The composition of claim 31 wherein

(a) said phosphite esters range from approximately about 1 to 8 phr inclusive; and

(b) said zinc ranges from approximately about 50 to 800 ppm per hundred parts resin and further wherein said zinc is a zinc carboxylate.

33. The composition of claim 32 wherein

(a) said phosphite esters range from approximately about 2 to 4 phr inclusive; and

(b) said zinc ranges from approximately about 100 to 500 ppm per hundred parts resin and further wherein said zinc carboxylate is selected from the group consisting of zinc octoate, zinc 2-ethylhexoate, zinc hexoate, zinc neodecoate, zinc, decoate, zinc dodecanoate, zinc isostearate, zinc oleate, zinc stearate, zinc tallow fatty acids, zinc palmitate, zinc myristate, zinc laurate, and zinc benzoate.

34. The composition of claim 33 wherein

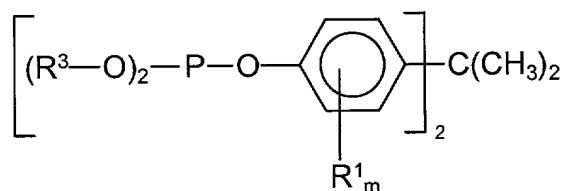
(a) said phosphite esters range from approximately about 2 to 4 phr inclusive; and

(b) said zinc ranges from approximately about 100 to 250 ppm per hundred parts resin.

35. The composition of claim 34 wherein

(a) said phosphite is selected from the group consisting of

Bisphenol-A phosphites of formula (IV)



(IV)

wherein

R^1 is independently selected from the group
consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy,
halogens; and

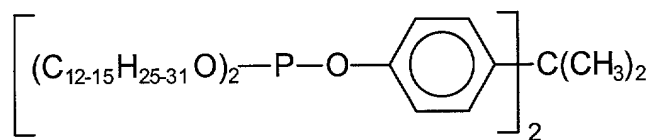
R^3 is C_{8-18} alkyl; and

M is an integral value from 0 to 5 inclusive,

36. The composition of claim 35 wherein

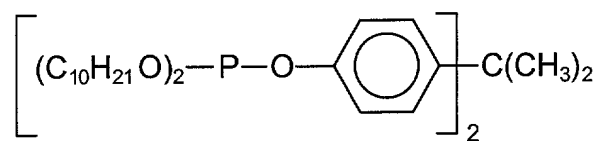
(a) said phosphite ester is selected from the group consisting of

C_{12-15} bisphenol-A phosphite of formula (VIII) and



(VIII)

C_{10} bisphenol-A phosphite of formula (IX)

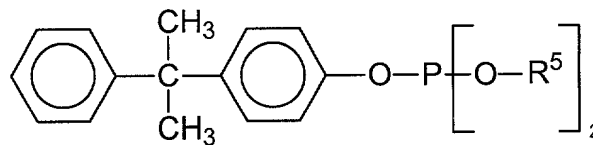


(IX).

37. The composition of claim 31 wherein

(a) said phosphite ester is

p-cumyl phenol phosphite is of formula (VII)



(VII)

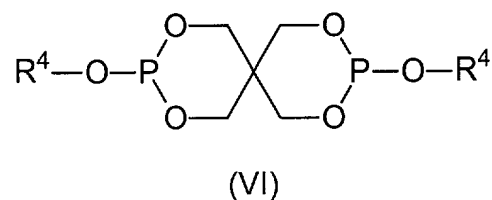
wherein:

R^5 is independently selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

38. The composition of claim 31 wherein

(a) said phosphite is

Pentaerythritol phosphite of formula (VI)

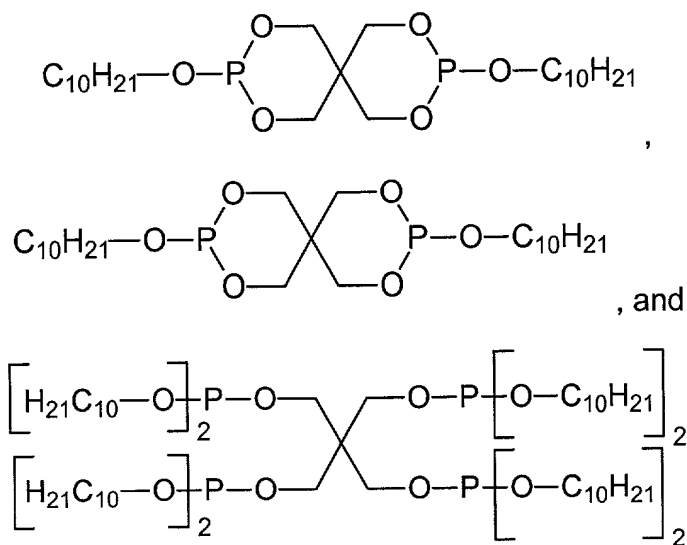


wherein:

R^4 is selected from the group consisting of C_{8-18} alkyl; C_{6-30} aryl, C_{6-30} fused aryl rings, C_{7-35} alkaryl, C_{7-35} arylalkyl, and substituted derivatives thereof, wherein the substituents are selected from the group consisting of halogens, hydroxyl, C_{1-4} alkyl, and C_{1-4} alkoxy.

39. The composition of claim 38 wherein

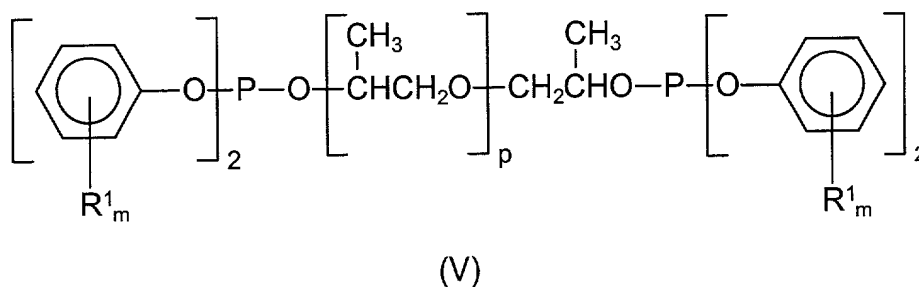
(a) said phosphite is selected from the group consisting of



40. The composition of claim 31 wherein

(a) said phosphite ester is a

Polydialkylene glycol phosphite of formula (V)



wherein:

R^1 is independently selected from the group consisting of H, C_{1-18} alkyl, C_{1-18} alkoxy, halogens;

m is an integral value from 0 to 5 inclusive; and

p is an integral value from 0 to 1 inclusive.

41. The composition of claim 40 wherein

(a) said polydialkylene glycol phosphite is selected from the group consisting of

